The Wobbly Oscillator

Cuyahoga Amateur Radio Association

June 2025 Volume 55 Numbre 6

FIELD DAY!

From the Prez

Toby, WT8O

June *IS* Field Day

With Dayton and the Memorial Day parade in the rearview mirror, our main focus is concentrated on Field Day. We have a new site – James Day / Nike Park in Parma. The park has plenty of space for us to spread out our antennas, a luxury we have been lacking with our last two locations. There is also an abundance of trees for us to support said antennas. With the swimming pool, exercise facilities, and baseball diamonds the park is usually swarming with activity providing us a tremendous opportunity to display amateur radio to the public.

With all the new members we have gained lately, it sure would be cool to see some new faces attend. We will eagerly help anyone get on the air who has never done so. Experienced operators will coach those wishing to get on the mics on Single Sideband, the keyboards on FT-8, or the keys on CW. I'll never forget the thrill of my first HF contact at Field Day just after getting my Technician License. I would like nothing more than assisting someone to experience that same thrill. We can't emphasize enough that no one need be shy about attending or operating at Field Day – that's what it's all about.

During the course of the month Bob, K8RI, and I will continue planning the basics of station positioning and securing bonus point strategies. Anyone who would like to help, either to operate or offer support, and has not signed up at meetings or on the nets, please contact Bob or me so we can welcome your help with open arms.

Dayton

The CARS bus trip to the Dayton Hamvention continued the great tradition of our club providing convenient transportation to the world's largest ham radio extravaganza. Everyone who went had nothing but positive comments. The

awesome show included the manufacturers displaying all their equipment and unveiling new gear staffed by knowledgeable company employees, representatives of organizations such as the ARRL, interesting educational forums, and of course the acres of used equipment in the flea market. John, NU8Y, penned his thoughts down the page, so I'll refrain from being redundant.

We cannot speak of Dayton without acknowledging the CARS members whose hard work made it all possible. Eddie, KD8FTS, shouldered the full responsibility. He advertised the trip on the club website, nets, and meetings, as well as going to other radio club meetings to promote the bus. He reached out to past riders attempting to secure additional reservations. Eddie contacted the bus company to make the reservation and detail the itinerary. He arrived early at the first stop assisting and checking in the passengers. Just before departure, Eddie contacted the no-shows to check if they would be late or not coming. He even took reservations for next year on the ride home. We must also thank Matt, KE8OZU, for posting all the trip information on the website and Scott, AC8NW, for securing the contract with the bus company at an affordable rate.

The high point for me was hanging with Yuri, W4YSW, who attended his first Hamvention. Yuri was dazzled with all the available equipment he had never seen before. Yuri, his XYL, and I had a great time together.

Memorial Day Parade

Once again the CARS crew did an outstanding job providing communications and managing traffic for the annual Seven Hills Memorial Day parade. Under picture-perfect blue skies and wonderfully comfortable temperatures the club volunteers turned chaos into a smooth operation. The hundreds of cars pulling into the St. Columbkille church bunched up in mini jams with no idea where to report until the CARS members approached each vehicle questioning the driver as what group they were with and directing them to their designated line-up position indicated by numbered flags our team installed prior to the arrival of the participants.

The nerve center of the operation was the incredible radio equipped communications trailer provided by Chuck, K8VCVM, who also organized the operation and provided detailed instructions and graphics to each member of the support team. We owe Chuck immense gratitude for his hard work and expertise bringing the event support effort to a much higher level than we had done in previous years.

Helping the City of Seven Hills with the parade is not only another example of CARS demonstrating our motto "Hams that Serve," it provides us with "Recognized Organization" status with Seven Hills and yields the city's allowing us to hold our Morse Code and licensing classes in their facilities at no charge.

A tip of the CARS cap to the members who comprised the support team that included Joe, KD8BAL; Scott, AC8NW; Bob, K8RGI; Matt, KE8OZU; Eddie, KD8FTS; John, NU8Y; Toby, WT8O, and Chuck, K8CVM.

Flags and marchingbands are staples of the Seven Hills Memorial Day parade.

Cars and Amateur Radio's participation in the Seven Hills Memorial Day parade helped ensure a smooth operation that allowed spectators to appreciate the moment. Participating in the parade as well as helping provide a"command center" for the volunteer hams was the ESG communications trailer. CARS volunteers included: Joe, KD8BAL; Scott, AC8NW; Bob, K8RGI; Matt, KE8OZU; Eddie, KD8FTS; John, NU8Y; Toby, WT8O, and Chuck, K8CVM

Dayton Hamvention 2025

The bus was full of enthusiastic Hams as we departed Middleburg Heights promptly at 5:30 am. We picked up riders at two more locations along the way, arriving comfortably at the Green County Fairgrounds at 9:15 am. The bus ride started out kind of quiet, but once the sun came up most riders were busy chatting and discussing all kinds of ham topics. This year when we arrived at our destination, we were dropped off close to the show entrance where fellow hams were already entering .

Like other years, the main buildings were jammed full of radio manufacturers and the usual radio retail suppliers. The big booths were occupied with the likes of Yaesu, Icom, HRO, ARRL, Elecraft, Flex Radio, Diamond Antenna, DX Engineering, Giga Parts, and a whole host of others. Everyone who has a name in Ham Radio was there.

The manufacturers had their top-notch people there, ready to answer questions and show-off their offerings. If you had a radio question, this was the place to ask it.

The Flea Market area was physically improved since last year. The rough terrain had been graded and most large stones and tripping hazards were gone. The ground was dry and the grass recently cut. Hats off to the Fair Board for a decent job at grooming the grounds. There must have been hundreds, if not seemingly thousands, of tents set-up with people selling almost anything you could imagine. Every kind of "boat anchor" was for sale.

The midway again was loaded with all sorts of food and drink vendors. At one point I found a good spot to sit for a short rest. There was a young lad about 10 years old sitting near me, eating a Fred Flintstone sized pork sandwich. That sandwich could have fed our whole family when I was that age.

Multiple halls were hosting forums on a variety of topics all day long. The forum halls were again jam-packed. There were a lot of people at Hamvention again this year.

The weather was absolutely perfect. It was dry but cloudy, and the temperature was in the mid 60's. Aside from a strong blowing wind all day, I don't think we could have asked for a nicer day.

Hamvention 2025 was a great success and an event we can all be proud of. I hope you enjoyed it. If you could not make this year, plan on joining us on the CARS bus next year.

John, NU8Y

May 2025 Meeting Minutes

Meeting opened at 7:34 with the pledge of allegiance, then introductions of all members present.

Meeting min. for April meeting were approved by the membership as they were published in the WO

Officer's reports

Treasurer

Nothing to report.

President

Bill Mehle, KF8DGD; Esther McCorkle-Holas, KF8DXQ; Kyle Magilavy, KF8DXR; Brad Spencer, KF8DKU; Sue Magilavy, KF8DXV; and Chuck Magilavy, KF8EHS were voted in unanimously as members.

Members were reminded ARRL Great Lakes Division Director Scott Yonally would be the guest speaker at the Woodchuck ARC meeting May 23rd.

Field Day plans were discussed. This year's site will be at Nike Park in Parma. ARES trailer will be at Field Day site.

The Seven Hills Memorial Day Parade plans were discussed.

The Dayton Hamvention bus had a lower response than last year.

Members were reminded to check roster for accuracy

Vice President

ARRLand FCC updates. Latest ARRL Podcast—Simple Antennas for Field Day.

Secretary

Back up secretary Al Farley took minutes for the meeting

Comittee reports

VE– Two candidates tested, and both passed their Technician Exam.

Board Meeting—The required board meeting was held. No specific actions were taken. The next board meeting will be in October.

Refreshment- provided by Al Farley KF8BCC, John NU8Y, and Yuri, W4YSW

Old business

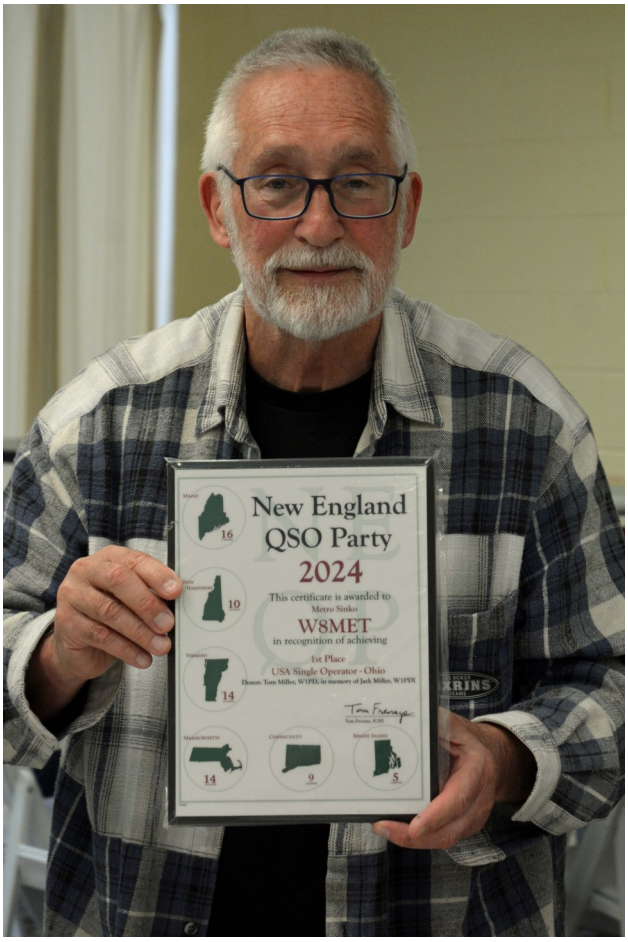
CARS clothing will be available through Gear Up. Details will te posted on CARS website.

Mentoring topics suggested include Grounding and Basic Radio Operations.

New business

Donated equipment is being checked and prepared for sale. It will be listed in the WO.

Meeting was adjourned ay 8:10pm



Metro, W8MET proudly displays his New England QSO award.

CARS VP Report

Consider the Value of ARRL Membership!

Support ARRL with your Membership and renewals!

Members who join — or renew — their ARRL membership any time from January 3 through December 31, 2025, are automatically entered into the ARRL Sweepstakes to win a dream station from Icom.

FCC Initiates Broad Inquiry on “Rules to Delete or Amend”; Update - Comments closed in April.

Dayton Hamvention ®: Latest information and schedules at the Hamvention.org website. Look for the postings of the 2025 seminars archived in the ARRL Learning Center.

Latest ARRL Podcasts… - Simple HF Antennas for Field Day

ARRL Education Specialist Wayne Greene, KB4DSF, returns to the podcast -

ARRL Audio News – For the latest in Amateur Radio News and Developments, Available and posted weekly every Friday. Check out ARRL.org for the audio link subscriptions to these podcast files.

Ron, K8RJH

Are you a member of ARRL?

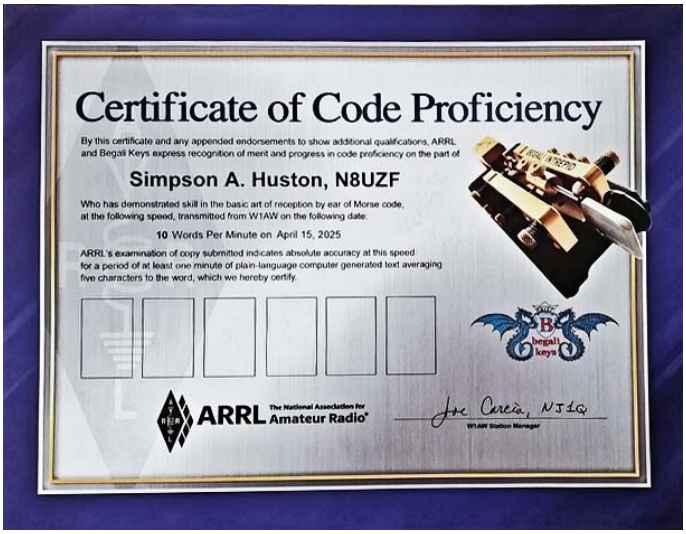
CARS is an ARRL affiliated club and receives a commission when CARS members join or renew their ARRL membership through CARS. In order for CARS to receive the commission, please follow this process. Contact the CARS Treasurer with any questions.

Fill out a paper ARRL membership application or the ARRL renewal form you received.

Provide the following items to the CARS Treasurer. The items can be mailed to PO Box 31264, Independence, OH 44131 or given to the Treasurer in person at any CARS meeting.

- Your completed ARRL membership application
- A check made out to ARRL for the full amount due on the application
- A stamped envelope addressed to ARRL. The ARRL address is on the membership application. Please do not seal the envelope.

NOTE: Please do not include CARS dues in the ARRL membership/renewal amount, you will need to pay your CARS dues separately.


Certificate of Code Proficiency
By this certificate and any appended endorsements to show additional qualifications, ARRL and Begali Keys express recognition of merit and progress in code proficiency on the part of
Simpson A. Huston, N8UZF
Who has demonstrated skill in the basic art of reception by ear of Morse code, at the following speed, transmitted from W1AW on the following date:
10 Words Per Minute on April 15, 2025
ARRL's examination of copy submitted indicates absolute accuracy at this speed for a period of at least one minute of plain-language computer generated text averaging five characters to the word, which we hereby certify.
ARRL The National Association for Amateur Radio
Joe Carcia, N1IQ
W1AW Station Manager

CARS CW Completion

Metro, W8MET and I completed instructing the 3rd annual CARS CW class 3 months ago. One of the goals of the class was to have each student obtain their ARRL Certificate of Code Proficiency. I am happy to announce that Simpson (N8UZF) has obtained his ARRL Mose Code Certificate which states, "Submitted (text) indicates absolute accuracy at this speed (10WPM) for a period of at least one minute of plain-language computer generated text averaging five characters to the word".

Congratulations Simpson on a job well done and successfully completed.

Morse code is a skill that few people gain, yet it opens the door to a whole new experience for a Ham radio operator. Obtaining your ARRL Code Proficiency Certificate is just the beginning of the adventure. There is much more to explore on the air with this additional skill.

CARS will be conducting our next CW Class beginning in October. Please contact Metro or myself if you're interested in learning this new language.

Dave, AC8TN

Editor’s Note::

Many of us started as hams when Morse Code was a licensing or upgrade requirement. We all have stories about how we struggled and how we obtained the skill to qualify for our license or upgrade. Some went on to use Morse Code as a mainstay of their on-air amateur radio presence. Tell us your story so we can keep the interest for this vital communications language alive. A short e-mail, or a long text document, send it to me and we’ll share here and on the Discord server.

Perry, KB8AYQ

Welcome New Members

Bill Mehle, KF8DGD

Esther McCorkle-Holas, KF8DXQ

Kyle Magilavy, KF8DXR

Brad Spencer, KF8DXU

Sue Magilavy, KF8DXV

Chuck Magilavy, KF8EHS

Hamfest Info

The Northern Ohio Amateur Radio Society Presents Summer Hamfest 2025

- July 19, 2025
- 9 AM to Noon.
- Lorain County Community College's John Spitzer Conference Center, Reaser Grand Room, 1005 North Abbe Road, Elyria, OH.
- Tickets - $10, will be available at the door. Cash only. Children 11 and younger are free.
- Prizes include either one CB or 10 Meter antenna from CompacTenna, winners' choice.

Are you looking for equipment at a good price? Join the fun, explore equipment

Seller tables for those looking to sell ham radio equipment or relevant items.

For more information or to rent a table, contact John Dolinar, Club President at (216) 276-8871 before 9PM.

Or email: winterhamfest@noars.net.

June Net Sked

June	4	WT8O
June	11	K8RJH
June	18	KD8ACO
June	25	AC8NW

Nets are run every Wednesday at 9:00 PM on:

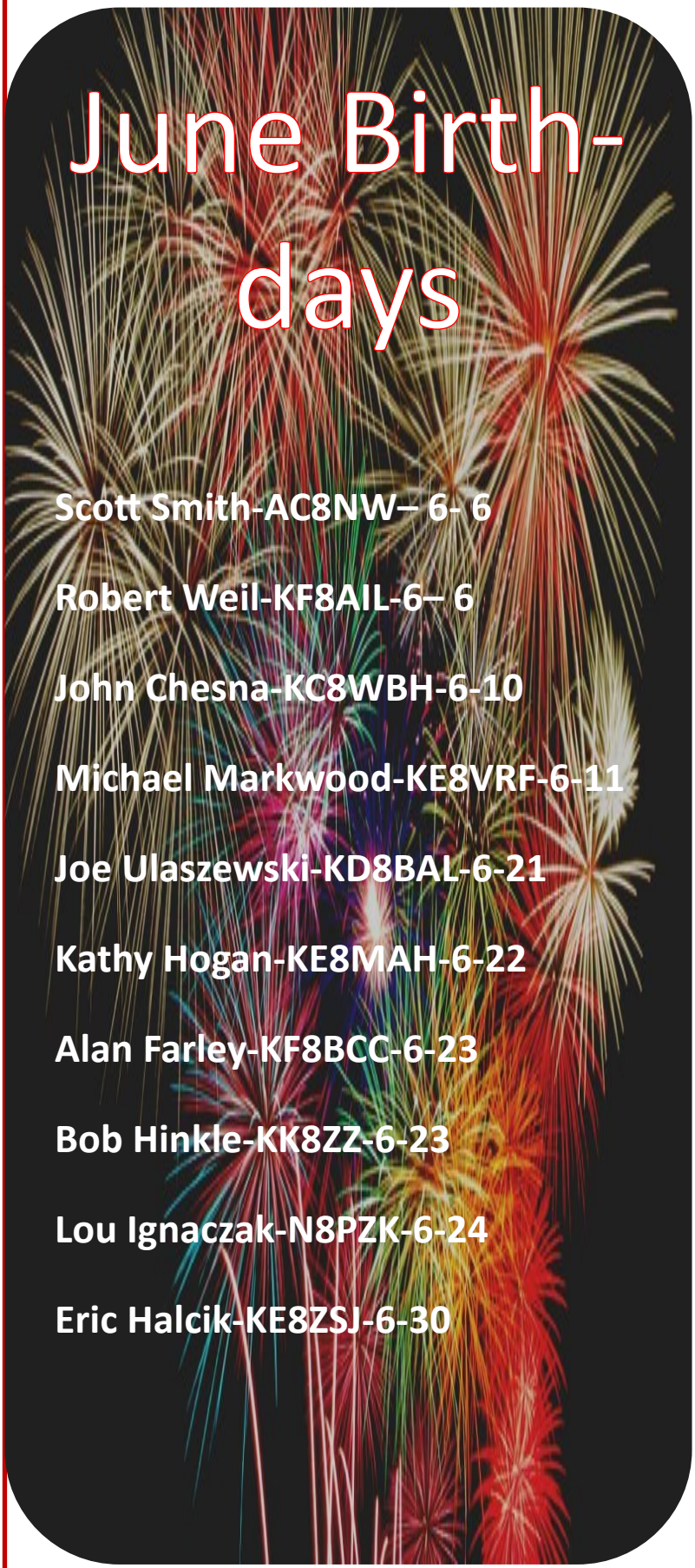
146.820 (PL 110.9)

443.825(+) PL Tone 131.8
Digital Yaesu Fusion / C4FM
Linked to the 146.82 Repeater

EchoLink Node 343470 (K8ZFR-R)

Allstar Node 47067

WIRES X Node 91242-Room 01242



CARS Repeaters

146.820 (-) PL Tone 110.9

Analog Repeater

Main Site – Brecksville

Receive Only Site – Brunswick

Receive Only Site – Shaker Hts.

AllStar Node 47067

EchoLink Node 343470 (K8ZFR-R)

WIRES X Node 91242 Room 01242

****

443.825 (+) PL Tone 131.8

Digital Yaesu Fusion

Linked to 146.820 Repeater

Brecksville

****

444.75 (+) PL Tone 131.8

Analog Repeater

Not Linked to Other Repeaters

Shaker Hts.

Next CARS Meeting

Tuesday, June, 10th - 7:30 PM

Harriet Keeler Picnic Area

Brecksville Reservation

Cleveland Metroparks

A Member Learning Experience

Share Your Mobile Installation,

Bring Your Mobile Installation Questions and Problems

See Website for Details - www.2cars.org

July VE Session

The next VE testing session will be held Sunday, July, 13th, at 9:15 AM (SPECIAL NOTE: That is the date for Daylight Savings Time to begin, so check your clock!). Testing is at the Old Elmwood Recreation Center, 6200 Pete Wisniesky Parkway, Independence 44131. Directions and a map are on the CARS web-site homepage. For information or an appointment please contact Metro, W8MET, at 216-520-1320 or metro351@sbcglobal.net

As always, walk-ins are welcome.

No matter what your license class is, or how much time you have available to volunteer, your service would be welcome in a number of ways this year! Just be sure to ask any CARS officer or active public service member in our scheduled Monthly Club meetings for current volunteer information.

Special Note on June Meeting

Since the June meeting is outdoors, it offers a unique opportunity for club members and guests to bring their vehicles and share their mobile installations, tips, and tricks.

If you are still looking for information on how to install your own mobile, this is a great time to get your questions answered by hams who have learned a few things over the years in-stalling mobile rigs and antennas and trouble-shooting their installations.

Today's vehicles pose some interesting chal-lenges for hams. Tinted windows, loads of onboard electronics, very little space to position a rig, and lots of issues routing power and an-tenna lines. We needeveryone's input to make this a valuable learning event.

Cleveland Emergency Operations Center (EOC), one of the sites where amateur radio operators (Ron, N8RJH and Chris, N8FRE) helped coordinate communications for the Cleveland Marathon.

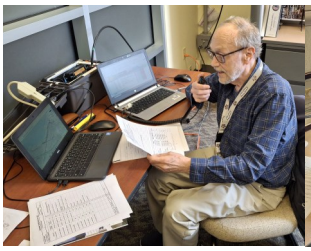
The 2025 Cleveland Marathon: Every Volunteer Counts for Success

The Cleveland Marathon is a celebrated annual event that highlights the invaluable role of Amateur Radio operators in supporting communication and public service efforts within the local community. Now in its 48th year, this marathon holds the distinction of being one of the longest-running programs of its kind in the United States. Spanning two days, the event took place on May 17-18, 2024, offering five different challenge levels to accommodate participants of all abilities. Beyond the runners themselves, the marathon's true impact extends to the many community charities it benefits, reinforcing its reputation as a highly worthwhile endeavor.

This year's race saw impressive participation, with over 10,000 runners and countless spectators being a part of the weekend event. Such an ambitious event would not be possible without the dedication of numerous volunteers, including individuals and organizations that contributed their time and effort to ensure smooth operations.

Among the volunteers were 36 amateur radio operators from the Cleveland area, eleven (11) of whom are active members of the Cleveland Amateur Radio Society (CARS). Representing the club at this year's 2 day event were Chuck Mehozonek (K8CVM), Stephen Bopple (K3EAD), Gary Berkowitz (K8REF), Perry Trunick (KB8AYQ), Robert Wright (KE8CEO), Brad Spencer (KF8DXU), Simpson Huston (N8UZF), William Sheehan (K2WJS), Bob Robbins (K8RGI) and Ron Hollas (K8RJH).

On Sunday, the City of Cleveland Emergency Operations Center (EOC) was activated, enhancing public safety



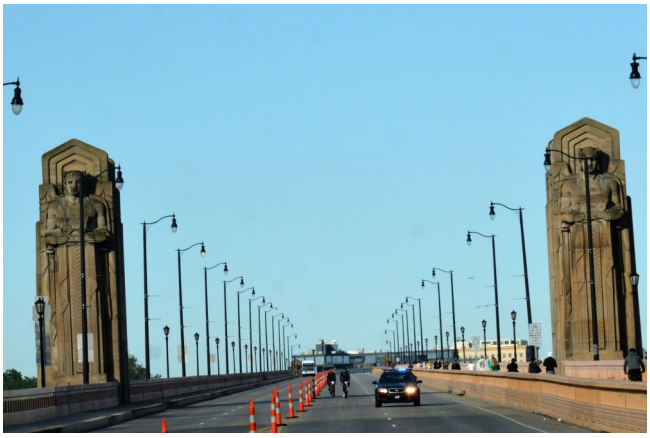
across several major gatherings, including the marathon, graduation ceremonies, festivals, and sporting events happening throughout downtown.

By all measures, the 2025 Cleveland Marathon was a resounding success. It provided an excellent opportunity to refine operating skills, connect with fellow amateur radio enthusiasts, and contribute meaningfully to a local event that has a global reputation. For those looking to volunteer their communication expertise for the first time, this marathon remains a highly recommended annual experience.

Next Year's Cleveland Marathon is scheduled on May 16-17, 2026

For Additional Information.
The Cleveland Marathon Event and Planning - https://www.clevelandmarathon.com
Amateur Radio (ARES) and Volunteer Scheduling - https://n8esg.org

RUN
CLEVELAND
MARATHON
13
HALF
NOT



Cuyahoga Community College
WELDING

University Hospitals
Sports Medicine
216-983-PLAY

13 Colonies Event Recognizes Event Founder KU2US

In just a few weeks, one of the most popular summer operating events kicks off – The 13 Colonies Special Event. Now in its 17th year, the event has grown from Special Event Stations making approximately 12,000 contacts to last year making 292, 496 contacts around the world. The Event runs from July 1 9:00 AM - July 7 Midnight Eastern (July 1 – 1300 UTC – July 8 – 0400 UTC).

This year Event organizers are recognizing the 13 Colonies Special Event founder Ken Villone, KU2US, who is passing the torch on to Tony Jones, N4ATJ. For the past 16 years, Villone has lead the Event by working with state and bonus station coordinators. Then after the event he would print out individual certificates for thousands of people who made contact with the special event stations.

The Special Event consists of one station operating in each of the 13 Colonies (K2A – K2M) and three bonus stations (WM3PEN – Philadelphia, GB13COL – England, TM13COL – France) each representing their city, state, or country's role in America's Colonial period.

Villone describes how the event got started: "I had just finished participating in the ARRL Sweepstakes in 2008, and remarked how fun it was. I could not figure out why there were not more of these types of special events on the air. So I decided to try my luck and create one for one year, only to see what happens and to have some fun. I knew we had to offer a special QSL card and/or certificate plus have on hand a printer and supplies. The hard part was deciding what the event would commemorate and when to do this. I needed a theme that ALL could relate to! Also the event would have to be the type with multiple event stations involved, like the ARRL Sweeps. Then it hit me! 13 Colonies [states], during the 4th of July week and offer a certificate with the theme for the year. I made sure the theme was different each year with a different certificate design, to make it interesting and to also make the certificate collectable. The theme would highlight some event or thing connected to the American Revolution. The event was held July 1st to the 4th, 2009, 4 days. It started with no advertising except on QRZ. I had a hard time getting 13 different Ops, one from each Colonial state, but it worked out. All-in-all, it was a success! We did over 12,000 contacts the first year. I decided we have a good thing going so I recruited another Op from each state and ran the event the next year in 2010. We did over 32,000 contacts in 2010 and had 26 state operators total. There was a 13 Colonies special event in 1962 but only lasted one year, according to my research. (I was 13 years old)."

Ham Radio operators and SWLs can participate in the event. Complete information about the call for each colony station and the bonus stations can be found on the event website 13colonies.us and they can follow us on Facebook – 13 Colonies Special Event Community. Stations need only make one contact with one of the participating stations or they can go for a Clean Sweep and work all 13 Colony stations and the 3 bonus stations. Each station offers a special QSL card for the event as well as a different certificate each year. Operators can keep an eye out for the special event stations and the special event stations can keep an eye out for them by watching many of the dx spotting networks such as DXSummit.fi

Robert, K8RGI.

2025 CARS Committees, Officers, Board and Trustees

CARS 2025 Committees

50/50

Chair: Andy Evridge, KD8SCV

Member: Joe Ulazewski, KD8BAL

ARRL Liaison

Chair: Ron Hollas, K8RJH

Audio/Video

Chair: Scott Smith, AC8NW

Audit

Chair: Ron Hollas, K8RJH

Members: Eddie Stevens, KD8FTS and Toby Kolman, WT8O

Awards

Co-Chairs: Toby Kolman, WT8O and Mark Moro, WJ8WM

Field Day

Co-Chairs: Bob Robbins, K8RGI and Toby Kolman, WT8O

Members: Scott Smith, AC8NW, David Korow, AC8TN, Arp Viiberg, K8ARP, Ron Hollas, K8RJH, Andy Evridge, KD8SCV and Mark Moro, WJ8WM

Hamvention Bus

Chair: Eddie Stevens, KD8FTS

Historian

Chair: Toby Kolman, WT8O

Holiday Party, Summer Picnic

Chair: Al Farley, KF8BCC and Mark Moro. WJ8WM

License Classes

Chair: David Noeth, KD8ACO

Members: Joel Chaney, K8SHB, Ron Hollas, K8RJH and Toby Kolman, WT8O

Media Representative

Chair: Andy Evridge, KD8SCV

Membership

Chair: Toby Kolman, WT8O

Member: Matt Perlman, KE8OZU

Net

Chair: Toby Kolman, WT8O

Members: Scott Smith, AC8NW, David Korow, AC8TN, Ron Hollas, K8RJHb and David Noeth, KD8ACO

Newsletter

Chair: Perry Trunick, KB8AYQ

Member: Yuri Sivitski, W4YSW

Programs at Meetings

Chair: Joe Ulaszewski, KD8BAL

Members: Eddie Stevens, KD8FTS and Matt Perlman, KE8OZU

Public Service

Chair: Eddie Stevens, KD8FTS

Member: Arp Viiberg, K8ARP

QSL Manager

Chair: Metro Sinko, W8MET

Quartermaster

Chair: Toby Kolman, WT8O

Records Custodian

Chair: Terry Pillatt, KB8DTC

Refreshments - Coffee

Chair: John Dernar, NU8Y

Refreshments - Donuts

Chair: Matt Neely, NU8H

Refreshments - Pop

Chair: Mark Rosewitz, KC8ESG

Scholarship

Chair: Toby Kolman, WT8O

Members: Bob Robbins, K8RGI, Ron Hollas, K8RJH, Matt Perlman, KE8OZU, and Mark Moro, WJ8WM

Sunshine (Welfare)

Chair: Andy Evridge, KD8SCV

Technical

Chair: Scott Smith, AC8NW

Members: Mark Scoville, AD8KE, Ron Hollas, K8RJH, Terry Pillatt, KB8DTC, Mark Rosewicz, KC8ESG, David Noeth, KD8ACOb and Mark Moro, WJ8WM

VE Exams

Chair: Metro Sinko, W8MET

Members: Members: George Pindroh, K8KR; Fred Freer, K8IG: David Korow, AC8TN,

Simpson Huston, N8UZF, Matt Neely, NU8H

Webmaster/email

Chair: Matt Perlman, KE8OZU

2025 Officers

President

Toby Kolman, WT8O

440-525-6109

wt8o@att.net

Vice-President

Ron Hollas, K8RJH

216-379-7440

ron@hollas.co

Secretary

Matt Neely, NU8H

216-965-4476

matt@matthewneely.com

Alternate Secretary:

Matt Perlman, KE8OZU

Treasurer

Matt Perlman, KE8OZU

216-337-1540

matt@seagem.me

CARS 2024 Executive Board

Board Chair

Mark Moro, WJ8WM

216-496-2871

Even Year Board Members

Scott Smith, AC8NW; John Dernar, NU8Y, and Mark Moro, WJ8WM

Odd Year Board Members

Eddie Stevens, KD8FTS; Mark Rosewicz, KC8ESG, and Al Farley, KF8BCC

CARS License Trustees

K8ZFR Trustee

Toby Kolman, WT8O

W8BM Trustee

Mark Moro, WJ8WM

W8HBI Trustee

Matt Perlman, KE8OZU

Honorary Members

Any person who by nature of outstanding or meritorious contribution to the furtherance of amateur radio and the ideals of the Cuyahoga Amateur Radio Society

Robert Check, W8GC
Elected 2/10/15

Thomas Wayne, WB8N
Elected 1/10/17

Dwaine Modock, K8ME/SK
Elected 5/9/17

Toby Kolman, WT8O
Elected 10/10/17

Jerry Smith, NW9H
Elected 5/8/18

Dues Notice

Matt, KE8OZU

Your 2025 CARS dues are payable on or before January 31, 2025. If you have already paid THANK YOU.

Dues can be paid in two ways:

You can mail a check to:

CARS
PO Box 31264
Independence, OH 44131-0264

Pay in person at any CARS meeting.

Dues are $26.00 per year for regular membership. Each additional family member is $16.00.
If you are 60 yrs. or older, your dues are only $18.00 per year.
CARS will offer assistance to anyone having a hardship.

Please let me know if you have a hardship or know a member who needs help.

The *Wobbly Oscillator* is a publication of the Cuyahoga Amateur Radio Society. Articles from this publication may be reprinted in any ham radio publication, if credit is given to this publication and the author, if known.

All submissions should be emailed to: Perry A Trunick, KB8AYQ at perry@trunick.com